Table D-8 - Regulation Schedule - Winnibigoshish Dam and Reservoir

Regulation Schedule	Condition	Reservoir Elev./Stage in ft.	Operation
1. Routine Operation			
After Labor Day to spring breakup	Winter drawdown	1298.44 to 1296.94 9.5± to 8.0	The Reservoir Regulating Section shall compute the discharge required to lower the pool to spring level, elev. 1296.94 ft. (8.0 ft. stage), before the beginning of the spring breakup, usually about 1 April. Periodic checks of inflow shall be made and outflow adjusted as necessary. If the drawdown is completed before the breakup begins, discharge inflow until spring runoff starts. *The State of Minnesota's plan of operation requires the discharge to be 100 cfs if the elev. is below 1296.94 ft. (8.0 ft. stage)
Spring breakup Period **Note: Lake Winnibigoshish's summer range was lowered 1 foot in 1975.**	Storing spring runoff	1296.94 to 1303.14 8.0 to 14.2	Sufficient runoff, if available, must be stored to fill the reservoir to the desired summer range, 1297.94 to 1298.44 ft. (9.0 to 9.5 ft. stage), and the storage capacity shall be utilized) if necessary, to prevent or reduce damages to downstream stations, primarily in the Aitkin area. When the breakup begins, reduce discharge to 100 cfs and store balance of inflow. If desired summer range is reached and no danger of flooding exists downstream, discharge inflow. Inflows shall be stored as long as the stage at Aitkin is at or above 12.0 ft., flood stage. However, if Winnibigoshish pool should reach elev. 1303.14 ft. (14.2 ft. stage), maximum operating limit, increase discharge to inflow. If the inflow

Table D-8 - Regulation Schedule - Winnibigoshish Dam and Reservoir

Regulation Schedule	Condition	Reservoir Elev./Stage in ft.	Operation
Routine Operation (Cont.)			becomes greater than the discharge capacity of the dam, the dam shall be completely opened, and open river conditions will exist until regulation at the dam is again possible. Discharge shall be governed by conditions at Aitkin until the spring breakup is completed. *The State of Minnesota's plan of operation limits the maximum discharge to 4500 cfs if the reservoir is above the desired maximum elev. of 1300.94 ft. (12.0 ft. stage).
End of spring breakup to about 1 July	Bringing reservoir to desired summer range	1303.14 to (1297.94 – 1298.44) 14.2 to 9.0 – 9.5	After it is no longer necessary to store runoff for downstream damage prevention, the Reservoir, Regulating Section shall compute the discharge required to raise or lower the pool as necessary to bring the reservoir to the desired summer range by about 1 July if possible.
About 1 July to Labor Day	Normal summer Operation	1297.94 to 1298.44 9.0 – 9.5	By the operation of the slide gates and the addition or removal of bulkheads if necessary, maintain pool at desired summer range until winter drawdown begins. *The State of Minnesota's plan of operation requires the discharge to be 100 cfs if the elevation is below 1298.19 ft.(9.25 ft.stage).

Note: Lake Winnibigoshish's summer range was lowered 1 foot in 1975.

Table D-8 – Regulation Schedule – Winnibigoshish Dam and Reservoir

Regulation Schedule	Condition	Reservoir Elev/Stage in Ft.	Operation
2. Flood Control			
Summer	Large runoff from intense	1297.94 - 1303.14 9.0 - 14.2	The operation is the same as that for storing the spring runoff during the spring breakup period.
Fall	or prolonged rainfall or	1296.94 - 1303.14 8.0 - 14.2	
Winter	winter thaw	1296.94 - 1303.14 8.0 - 14.2	
3. Water Supply And Conservation			
Drought	Very low inflows	1298.44 to 1294.94 (9.5 to 6.0) or lower if necessary	If inflows become so low that the reservoir must be lowered below desired elevation, so far as practicable, the reservoir shall be maintained above an elev. of 1294.94 ft. (6.0 ft. stage). The flow shall be governed by the Secretary of War's regulation that the average annual discharge shall not be reduced below 150 cfs. If the reservoir is at or below the minimum elev. of 1294.94 ft. (6.0 ft. stage), no discharge other than the minimum specified above shall be permitted except such increased discharge as may specifically be directed by the Chief of Engineers. *The State of Minnesota's plan of operation requires the discharge to be 50 cfs if the elev. is below 1294.94 ft. (6.0 ft. stage) minimum elev.; and 100 cfs if the elev. is between 1294.94 ft. and 1296.94. ft. (6.0 and 8.0 ft. stage). When greater flows are required at the minimum elevation, the discharge may be increased if authorized by the Commissioner of Conservation, and the maximum shall be 900 cfs.

* The State of Minnesota's plan of operation shall be effective only when the reservoirs are not functioning for the primary purpose of navigation and flood control.

MINNESOTA DEPARTMENT OF CONSERVATION
REGULATION OF WINNIBIGOSHISH RESERVOIR .

Elev. in feet	Maximum Discharge in cfs if Authorized By The Commissioner of Conservation
1289.94	50
1290.94	100
1291.94	300
1292.94	500
1293.94	700
1294.94	900
1295.94	1100
1296.94	2100
1297.94	3100
1298.19**	4500
1299.19	4500
over 1299.19	4500

** The normal summer pool level was lowered one foot in 1975 to 1298.19